

# THE ANNALS

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LXVI.—*Descriptions of new African Moths.*  
By Sir GEORGE F. HAMPSON, Bart., F.Z.S., &c.

[Continued from p. 464.]

*Stauropus atriguttata*, sp. n.

Antennæ of female bipectinate with rather long branches to near apex, which is simple.

♀. Head ochreous white; palpi with the second joint above and sides of frons black-brown; antennæ rufous; thorax pale yellow-green mixed with brown; pectus and legs ochreous white, the pectus in front and fore tibiæ on inner side brown; abdomen fuscous, the ventral surface ochreous white tinged with brown. Fore wing pale ochreous suffused with yellow-green and slightly irrorated with reddish brown, some brown at base of inner margin; small subbasal black spots below costa and cell, the former with a brown spot before it; a double incurved slightly waved brown ante-medial line, the inner line with black spot at costa, a black spot on an ochreous patch just beyond it below the cell; a black spot with an ochreous patch below it on subcostal nervure towards end of cell; a slight ochreous discoidal bar, with black spot at lower angle of cell; postmedial line red-brown defined on outer side by ochreous, double between veins 6 and 4, oblique from costa to vein 6, then waved, oblique below vein 3; the postmedial area with a series of

black spots, bent inwards between veins 6 and 4 and oblique below vein 4; a subterminal series of black spots, the spot above vein 4 displaced inwards; cilia red-brown intersected with greenish at the veins. Hind wing pale red-brown; the costal area pale green, with a rufous postmedial bar, followed by a black patch near apex with some grey on it; cilia ochreous white; the underside with the inner area whitish.

*Hab.* S. NIGERIA, Lagos (*Strachan*), 1 ♀ type; MASHONALAND (*Dobbie*), 1 ♀. *Exp.* 48–62 mm.

Nearest to *S. viridescens*, Wlk., from India.

*Stauropus rivata*, sp. n.

♀. Head and tegulæ white mixed with yellow-green and some rufous; palpi above and lower part of frons rufous; antennæ rufous; patagia green irrorated with black; thorax rufous; pectus and legs ochreous tinged with rufous; abdomen whitish tinged with rufous. Fore wing whitish suffused with pale yellow-green and slightly irrorated with black-brown; the base bright yellow-green defined by the double black oblique and irregularly sinuous subbasal line; antemedial line obsolescent, brown, angled outwards below costa and cell and excurved above inner margin; medial line strong, brown, bent inwards in cell, then dentate and excurved above inner margin; postmedial line strong, brown, angled outwards below costa, then incurved, angled outwards at vein 4, then oblique and dentate, another line beyond it defined on outer side by white, angled outwards just below costa, oblique to vein 6, incurved to vein 4, then oblique and minutely dentate; subterminal line slight, dark, defined on inner side by some white and on outer by brown suffusion from costa to vein 4 and towards tornus, bent inwards between veins 6 and 4 and below vein 2 and outwards to near termen between veins 4 and 2; cilia brown slightly intersected by ochreous at the veins. Hind wing pale brown, the cilia with ochreous mixed; the underside with the cell and inner area ochreous white.

*Hab.* S. NIGERIA, Akassa (*Lugard*), 1 ♀ type. *Exp.* 58 mm.

. Nearest to *S. viridescens*, Wlk., from India.

*Stauropus calliope*, sp. n.

Head and thorax bright yellow-green irrorated with black, the mesothorax with black-brown patch; palpi rufous, whitish in front and black behind; frons with some black at sides; antennæ black with the branches rufous; pectus and

legs ochreous white mixed with rufous, the tibiæ green above; abdomen black-brown, the extremity green, with some black hairs, the ventral surface yellowish white. Fore wing bright yellow-green irrorated with black; subbasal line double, black, excurved just below costa, at middle, and above inner margin; antemedial line slight, double, black, irregularly waved, the lines wider apart at costa, angled outwards in lower part of cell and at vein 1, a slight streak of white scales beyond it in submedian fold; orbicular and reniform faintly defined by white scales, the former amphora-shaped, the latter narrow, an oblique black striga above it from costa; postmedial line double, black, waved, oblique, somewhat bent inwards between veins 6 and 4, some black points beyond it on costa; subterminal line black, with a brown patch before it between veins 6 and 4, where it is incurved, and a smaller patch in submedian interspace, dentate at veins 4, 3, 2, and ending at tornus; cilia chequered brown and green. Hind wing pale tinged with red-brown, especially on inner area, the veins darker; cilia whitish at tips; the underside ochreous white, with a faint red-brown tinge on costal area.

*Hab.* NATAL, Durban (*Leigh*), 2 ♂, 1 ♀ type. *Exp.*, ♂ 50, ♀ 60 mm.

*Larva.* Whitish suffused with purplish pink and with numerous fine white rivulet lines enclosing irregular spaces, the ventral surface pale; eighth and ninth abdominal somites with patch of small white spots emitting an oblique streak to a lateral triangular patch on seventh somite; head with pair of black fasciæ; stigmata black ringed and centred with white; second thoracic somite with pair of long subdorsal horns.

Nearest to *S. viridescens*, Wlk.

*Stauropus atribasalis*, sp. n.

♂. Head and thorax dark reddish brown mixed with some whitish; palpi whitish in front; pectus and legs pale red-brown mixed with whitish; abdomen ochreous white suffused with red-brown, the hair at base of dorsum black-brown. Fore wing whitish tinged with pale yellow-green and irrorated with black-brown, the basal area suffused with black-brown bounded by the double oblique waved black subbasal line, angled inwards in cell to near base; antemedial line represented by an inwardly oblique black-brown striga from costa; some slight black-brown marks on discocellulars and above end of cell; postmedial line very indistinct, dark, oblique diffused and dentate from costa near apex to vein 4, where it

is angled outwards, then again oblique and with a slight spot on it below vein 2; a subterminal blackish line, arising from termen just below apex and slightly waved at veins 4, 3, 2; cilia chequered with brownish. Hind wing white, with two diffused brown bars from costa towards apex; the hair of inner area slightly tinged with rufous.

*Hab.* NATAL, 1 ♂ type. *Exp.* 4.4 mm.

*Stauropus melanosticta*, sp. n.

Head and thorax pale yellow-green; palpi, frons, and antennæ rufous, the palpi black above; some chocolate-brown on vertex of head, behind the tegulae, and on upper edge of patagia; pectus and legs yellowish tinged with rufous; abdomen yellowish suffused with rufous, the extremity green irrorated with brown. Fore wing pale yellow-green irrorated with black; a series of small red-brown spots on costa; a subbasal brown striga below the cell, followed by a black spot above vein 1; an oblique antemedial series of slight blackish spots bent outwards to costa, sometimes with a black streak from it to subterminal line in submedian fold; orbicular and reniform faintly defined by raised greenish-white scales, closely approximated, the latter narrow; postmedial line slight, blackish, bent outwards below costa, then dentate, oblique below vein 4, traces of another dentate line beyond it; subterminal line formed by a series of small rather dentate black spots, with more produced spots below veins 7 and 4; a crenulate black line just before termen; cilia brown, with a series of green points. Hind wing yellowish tinged with rufous, the costal area towards apex whitish, with three rufous bars; cilia chequered with whitish; the underside white.

*Hab.* S. LEONE (*Bartlett*), 1 ♂; GOLD COAST, Kumasi (*Whiteside*), 1 ♂, 1 ♀ type. *Exp.* 4.0–4.2 mm.

Allied to *S. vernalis*, Dist.

*Stauropus octoginta*, sp. n.

♂. Head and thorax grey-green mixed with white and fuscous; palpi white in front, black behind; antennæ brownish, the shaft barred with white; tegulae white at tips; pectus and legs white mixed with blackish; abdomen white, dorsally suffused with brown and with some black hair at base, the extremity grey-green mixed with black, the ventral surface tinged with yellow. Fore wing grey-green thickly irrorated with black; subbasal line black, angled



outwards below costa and cell and ending at vein 1; antemedial line indistinctly double, blackish, inwardly oblique from costa to median nervure, then bent outwards and again inwards to inner margin, a rounded white patch before it below the cell, and a rounded patch defined by white beyond it, followed by a black streak in submedian fold to beyond postmedial line; orbicular and reniform closely approximated, defined by white and forming the figure 80; postmedial line double, black, angled outwards below costa, then dentate, somewhat oblique, and the outer line bent outwards to inner margin, some alternating black and white marks beyond it on costa, and some slight black marks below costa; subterminal line black slightly defined on outer side by white, minutely and irregularly waved, slightly excurved below costa and at middle; cilia chequered blackish and grey-green. Hind wing white; two diffused blackish bars from costa towards apex; some ochreous hair on inner margin; the underside with slight black irroration on costa and a patch of black scales at middle of costal area.

*Hab.* TRANSVAAL (*Cholmley*), 1 ♂ type. *Exp.* 40 mm.

Allied to *S. vernalis*, Dist.

*Stauropus griseiviridis*, sp. n.

♂. Head and thorax pale grey-green slightly mixed with whitish and brown; palpi white tinged with brown; frons fuscous below, white above; antennæ rufous, the basal joint white; pectus and legs white tinged with ochreous; abdomen white tinged with ochreous and dorsally banded with brownish, the hair at base black, the extremity green irrorated with black. Fore wing pale grey-green tinged with brown in parts and slightly irrorated with blackish; subbasal line formed of black scales defined by whitish, inwardly oblique, ending just below the cell where there is a black point beyond it; antemedial line double, black filled in with whitish, inwardly oblique from costa to vein 1, then bent outwards; traces of closely approximated orbicular and reniform stigmata defined by whitish, an oblique black striga above them from costa; postmedial line indistinctly double, blackish, oblique and irregularly waved, from costa towards apex, somewhat incurved at discal fold and below vein 2; a sinuous black subterminal line, somewhat angled outwards at veins 4, 3, 2, then bent inwards; cilia chequered brown and whitish. Hind wing white, the veins tinged with brown; the costal area grey-green crossed by slight double sinuous blackish postmedial and subterminal lines; the underside white.

*Hab.* CAPE COLONY, 1 ♂ type. *Exp.* 40 mm.  
 Closely allied to *S. vernalis*, Dist.

*Stauropus thalassina*, sp. n.

♂. Head and thorax pale grey-green; palpi white, black above; frons black at sides; antennæ white, the branches rufous; a black band behind tegulæ; pectus and legs white, the fore tibiæ grey-green, the tibiæ and tarsi with some black; abdomen white dorsally tinged with green and banded with black, the hair at base black. Fore wing pale grey-green; subbasal line formed by black scales, oblique, bent outwards and terminating at submedian fold; antemedial line strong, black defined on inner side by white, oblique, sinuous, excurved in cell; some black scales on discocellulars; medial line black, rather diffused, angled outwards at vein 6, then dentate, oblique, confluent with the antemedial line at inner margin; postmedial line black defined on outer side by white, slightly bent outwards below costa, then oblique, sinuous, angled outwards at vein 4 and bent outwards to inner margin, some black points beyond it on costa; a subterminal series of rather lunulate black spots defined on inner side by white, the spot above vein 4 further from termen; a series of small black spots just before termen and a series on the cilia. Hind wing white, the hair on inner area tinged with ochreous; a slight oblique postmedial blackish striga from costa, the costal area beyond it pale grey-green with a diffused black patch at apex with faint diffused ochreous-brown subterminal shade from it to vein 1; the underside white with traces of medial and postmedial dark bars from costa.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 1 ♂ type.  
*Exp.* 42 mm.

*Stauropus leucosticta*, sp. n.

♂. Head, thorax, and abdomen chocolate-brown slightly mixed with greyish, the last with blackish crests towards extremity. Fore wing chocolate-brown overlaid with greyish-ochreous hairy scales; a white point at base of vein 1; three obliquely placed antemedial points towards costa and a point on vein 1; an obliquely curved postmedial series of small wedge-shaped white spots on the veins with blackish points before and beyond them. Hind wing chocolate-red with some grey hair and slight dark bars on costal area towards apex.

*Hab.* S. NIGERIA, Old Calabar (*Crompton*), 1 ♂ type.  
*Exp.* 34 mm.

Allied to *S. falsa*, Holl.

*Stauropus trichosa*, sp. n.

♂. Head, thorax, and abdomen chocolate-brown mixed with greyish; palpi blackish, pale in front; pectus, legs, and ventral surface of abdomen reddish ochreous, the fore legs redder. Fore wing chocolate-brown suffused with dark brown and slightly irrorated with hairy greyish scales, the costal area rather redder and irrorated with ochreous; a black point in end of cell and discoidal bar; traces of a double dark postmedial line, oblique from costa to vein 6, angled inwards at discal fold and outwards at vein 4, then again oblique; some ochreous points on costa towards apex; traces of a dark subterminal line, excurved at middle; a series of ochreous points on the cilia. Hind wing whitish tinged with chocolate-brown, the costal area deep chocolate-brown with some white hairs; an indistinct whitish postmedial band, excurved at middle; cilia whitish at tips; the underside ochreous white faintly tinged with rufous.

*Hab.* GOLD COAST, Kumasi (*Whiteside*), 1 ♂ type. *Exp.* 38 mm.

*Stauropus agramma*, sp. n.

Antennæ of female very minutely serrate.

♀. Head and thorax white with some black and brown hairs; palpi slight, black at sides; abdomen white slightly irrorated with black. Fore wing white rather thickly irrorated with black-brown; a subterminal series of small indistinct brown spots, slightly excurved below vein 7 and at middle. Hind wing white slightly tinged and irrorated with brown; traces of a diffused brown postmedial line; the underside white.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 1 ♀ type. *Exp.* 46 mm.

*Stauropus steniptera*, sp. n.

Antennæ of male bipectinate with very short branches, the apical third somewhat laminate and pilose.

♂. Head and thorax brown mixed with grey; antennæ white, the branches tinged with rufous; abdomen reddish brown tinged with fuscous, some grey hair at base and extremity; hinder part of pectus, hind legs, and ventral surface of abdomen white. Fore wing white very thickly irrorated with dark brown; a diffused straight dark subbasal line; antemedial line dark, diffused towards costa, bent outwards below submedian fold; postmedial line rather diffused, dark, with short dark streaks beyond it on the veins,

inwardly oblique between veins 4 and 2, then again erect, a faint diffused oblique shade beyond it from costa to vein 2 towards which it narrows; a waved brown subterminal line. Hind wing white, the hair on inner area faintly tinged with brown.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 2 ♂ type. *Exp.* 36 mm.

*Stauropus pergrisea*, sp. n.

♂. Head and thorax grey mixed with brown; palpi and sides of frons black-brown, the head between antennæ white with a black streak; antennæ white, the branches tinged with rufous; abdomen brown mixed with fulvous, the extremity whitish; pectus, legs, and ventral surface of abdomen white mixed with brown. Fore wing white rather thickly irrorated with brown; subbasal line brown, rather diffused, angled outwards below costa, then oblique, ending at submedian fold; antemedial line brown, diffused towards costa, angled outwards in cell and inwards in submedian fold; postmedial line brown, rather diffused, bent outwards below vein 2 to near tornus; subterminal line indistinct, brown, crenulate to termen at the veins. Hind wing white, the hair on inner area slightly tinged with brown.

*Hab.* NATAL, Durban (*Whyte*), 1 ♂ type. *Exp.* 44 mm.

*Stauropus pulverulenta*, sp. n.

♂. Head and thorax grey-white tinged with brown; palpi and front of pectus tinged with fuscous; abdomen fulvous yellow with obscure brownish bands and some brown and grey hair at base, the ventral surface white. Fore wing white thickly irrorated with reddish brown; a faint brown subbasal bar from costa; antemedial line indistinct, brown, rather diffused, oblique from costa to vein 1; postmedial line brown, rather diffused, bent inwards below vein 4, then oblique to inner margin near tornus; an indistinct lunulate subterminal brown line. Hind wing white.

♀. Abdomen with the two terminal segments black-brown below and clothed with smooth scales instead of long white hair.

*Hab.* GOLD COAST, Ashanti (*Dudgeon*), 1 ♂, Kumasi (*Whiteside*), 4 ♂, 2 ♀ type. *Exp.*, ♂ 30-40, ♀ 42-48 mm.

*Stenostaura polioplaga*, sp. n.

Palpi extending to just beyond the frons; antennæ of

male bipectinate with long branches to near apex which is simple.

♂. Head ochreous mixed with red-brown; antennæ red-brown; thorax red-brown with some ochreous at sides; pectus, legs, and abdomen ochreous strongly tinged with rufous, the last with the hair at base tipped with blackish. Fore wing red-brown mixed with ochreous, the basal and inner areas more ochreous; subbasal line indistinctly double filled in with ochreous and with black points at the veins, excurved in cell and at vein 1; antemedial line double, the outer line with black points at the veins, crenulate and somewhat inwardly oblique; a large round grey-white patch at end of cell; postmedial line double filled in with ochreous, minutely waved, excurved below costa, then oblique, the veins beyond it streaked with black; subterminal line represented by a slight oblique ochreous striga from apex, points on veins 7, 6, and points on veins 4, 3, 2, and 1 with a slight dark line between them, a short ochreous streak before it below vein 4 with an oblique line from its inner edge to the ochreous on inner area; cilia chequered ochreous and blackish. Hind wing ochreous suffused with rufous, the cilia pale at tips; the underside ochreous white.

*Hab.* S. NIGERIA, Arochuku (*Dudgeon*), 1 ♂ type. *Exp.* 28 mm.

*Fentonia xylostola*, sp. n.

Antennæ of female with short branches, the terminal third ciliated.

Head and tegulæ ochreous white slightly mixed with red-brown; thorax and abdomen red-brown slightly mixed with white; pectus whitish; tarsi with pale rings; abdomen with the ventral surface ochreous white. Fore wing red-brown thickly irrorated with grey; subbasal line formed by black scales, excurved, from costa to vein 1; antemedial line formed of raised black scales, incurved at submedian fold and angled outwards above inner margin; postmedial line formed by sparse black scales, oblique outwardly to costa, then excurved to vein 2, then incurved; traces of a whitish subterminal line, slightly angled outwards below vein 7 and at middle; an indistinct blackish crenulate line just before termen. Hind wing red-brown, the cilia whitish at tips; the underside paler red-brown, the inner area ochreous white.

*Hab.* SIERRA LEONE (*Bartlett*), 2 ♂ type. *Exp.* 46 mm.

## Genus PHYLLALIODES, NOV.

Type *P. agramma*.

Proboscis absent; palpi porrect to just beyond frons and fringed with long hair; frons smooth, clothed with long hair; eyes large, round; antennæ of male bipectinate with long branches to apex; thorax clothed with long rough hair and without crests; tibiæ clothed with long hair; abdomen with some rough hair at base and without crests. Fore wing with the apex rounded, the termen obliquely curved and not crenulate; vein 3 from before angle of cell; 5 from middle of discocellulars; 6, 7 from upper angle; 8, 9, 10 stalked; 11 from cell. Hind wing with veins 3, 4 stalked; 5 from middle of discocellulars; 6, 7 stalked; 8 approximated to the cell to near extremity.

Fore wing of type with vein 7 forking well before termen on right side only.

*Phyllaliodes agramma*, sp. n.

♂. Head and thorax dark red-brown; abdomen brownish white; pectus, legs, and ventral surface of abdomen dark brown. Fore wing dark red-brown slightly irrorated with white. Hind wing white slightly tinged with brown, the veins browner; the underside with the costal area suffused with brown.

*Hab.* NATAL, Pt. Shepstone (*Aspinall*), 1 ♂ type. *Exp.* 44 mm.

*Antheua croceipuncta*, sp. n.

♂. Head and thorax bright yellow; antennæ rufous; palpi black fringed with crimson hair; pectus in front crimson; femora fringed with crimson hair; fore and mid tibiæ and tarsi black, the hind tibiæ black below, white above fringed with brownish hair; abdomen orange banded with black, the ventral surface pale yellow. Fore wing bright yellow; an oblique antemedial series of four orange-red points and a postmedial series of seven points, oblique below vein 4. Hind wing pale yellow, the inner and terminal areas tinged with orange; cilia white; the underside yellowish white, the inner area yellower.

*Hab.* GAZALAND, Mt. Chirinda (*Marshall*), 1 ♂ type. *Exp.* 48 mm.

*Antheua basipuncta*, sp. n.

♂. Head and thorax pale yellow; antennæ pale fulvous; palpi black fringed with crimson hair; frons crimson with



a white patch at middle; pectus in front crimson; femora fringed with crimson hair, tibiæ and tarsi black and white mixed; abdomen fulvous banded with black, the ventral surface pale yellowish. Fore wing pale yellow; subbasal orange-red points below costa and cell; an oblique antemedial series of three points and a postmedial series of seven points, oblique below vein 4. Hind wing white, the inner margin with some yellow hair.

♀. Head, thorax, and fore wing yellow; hind wing yellow suffused with brown, the inner margin and cilia yellow; underside of both wings suffused with brown, the margins narrowly yellow.

*Hab.* MASHONALAND (*Dobbie*), 1 ♂, 1 ♀ type; TRANSVAAL (*Pead*), 1 ♂. *Exp.*, ♂ 52-56, ♀ 62 mm.

*Antheua albida*, sp. n.

♂. Head and thorax yellowish white; antennæ fulvous; palpi black fringed with crimson hair; frons crimson at sides; pectus crimson in front; femora fringed with crimson hair; tibiæ and tarsi black below, mostly white above; abdomen fulvous orange banded with black, the ventral surface white. Fore wing yellowish white; an oblique antemedial series of three faint orange-yellow points and a postmedial series of seven points, oblique below vein 4. Hind wing white, the inner area with some ochreous hairs.

♀. Fore wing with the orange points more distinct, the cilia pale yellow; hind wing pale yellow; the underside yellow, the fore wing faintly tinged with brown except at margins.

*Hab.* N. ANGOLA; MASHONALAND, Salisbury (*Marshall, Dobbie*), 6 ♂, 2 ♀ type. *Exp.*, ♂ 52-54, ♀ 56-62 mm.

*Antheua trivitta*, sp. n.

♂. Head and thorax pale ochreous yellow; palpi and sides of frons black; some black behind the eyes; antennæ rufous; femora black above, the tarsi blackish above; abdomen deep rufous above, black at sides and extremity and whitish below. Fore wing pale ochreous yellow; short black streaks from base on median nervure and above inner margin and a short streak beyond lower angle of cell above vein 3. Hind wing white with some ochreous hair at base of inner margin; the cilia tinged with yellow at base.

*Hab.* ABYSSINIA (*Degen*), 1 ♂ type. *Exp.* 54 mm.

*Dinara encausta*, sp. n.

♂. Head, tegulæ, and prothorax pale yellow, palpi and sides of frons deep rufous, the frons tinged with rufous; antennæ rufous; thorax rufous with some white hair on patagia and metathorax; pectus and legs red-brown; abdomen rufous with some black-brown hair at base, a lateral series of blackish spots towards extremity and a sublateral series, the anal tuft and ventral surface pale yellow. Fore wing yellow; a subbasal black point in cell; a rufous fascia on inner area except at base; a wedge-shaped fascia from median nervure near base to termen between veins 4 and 2, where it is confluent with the fascia on inner margin and a triangular patch from termen below apex; cilia grey-brown with slight white tips. Hind wing grey-brown, rather paler at base; the underside ochreous, with some brownish suffusion from median nervure near base to termen between veins 6 and 2.

*Hab.* MASHONALAND, Salisbury (*Marshall, Dobbie*), 8 ♂ type, Umtali (*Marshall*), 1 ♂; GAZALAND, Mt. Chirinda (*Marshall*), 5 ♂. *Exp.* 40-48 mm.

*Zana bidentata*, sp. n.

♂. Head and thorax black-brown mixed with grey and some reddish yellow; antennæ reddish yellow; abdomen fulvous brown, the base and extremity creamy white; the ventral surface creamy white tinged with rufous. Fore wing pale yellow suffused with rufous, the terminal half of inner area to the cell and obliquely from beyond the cell to termen below apex fuscous brown tinged with grey and irrorated with black, interrupted by a creamy-white streak defined below by rufous on vein 4 from just beyond angle of cell to termen, the upper edge of this dark area bidentate at veins 6 and 7; cilia chequered black-brown and yellowish white. Hind wing white, the cilia with some brown scales.

*Hab.* S. NIGERIA, Olokemeji (*Dudgeon*), 1 ♂ type. *Exp.* 44 mm.

Closely allied to *Z. gallans*, Karsch.

*Zana anodonta*, sp. n.

♂. Head and thorax pale yellow, the pro- and mesothorax with some brown hair, the metathorax mostly brown; palpi brown; antennæ rufous; pectus and legs with brown hair mixed; abdomen fulvous, the base and extremity whitish, the anal tuft ochreous, the ventral surface white.

Fore wing creamy white, the costa tinged with fulvous; a dark brown streak defined below by fulvous along median nervure and above vein 4 from base to termen; the inner margin grey-brown and rufous except at base; the area from origin of vein 2 below the dark streak to tornus suffused with grey and irrorated with a few black scales; an obliquely downcurved dark brown streak from termen below apex to vein 6, defined below by rufous and with a triangular patch of grey suffusion irrorated with black below it extending to the whitish streak which defines the dark medial streak above; cilia grey mixed with some black. Hind wing white; the cilia chequered faintly with brown.

*Hab.* TRANSVAAL, White R. (Cooke), 1 ♂ type. *Exp.* 42 mm.

Allied to *Z. gallans*, Karsch.

*Zana ruficosta*, sp. n.

♀. Head and thorax pale yellow with fuscous streaks above patagia; palpi rufous; fore femora and tibiæ mostly brown, the tarsi banded with black; abdomen fulvous orange, the extremity and ventral surface yellowish white; subdorsal black spots on third, fourth, and fifth segments and a lateral series. Fore wing yellow; the terminal half of costal area rufous, with a wedge-shaped black-brown patch below it from before end of cell to termen below apex, its lower edge indented by a small spot of the ground-colour at upper angle of cell and dentate just before termen below vein 6; a dark brown fascia along median nervure and below vein 4 from base to termen, its lower edge with four slight dentations from before vein 2 to vein 3; a rather diffused brown fascia on inner margin except at base; the cilia with a series of blackish points. Hind wing silky white; the underside with the costal area tinged with orange-yellow.

*Hab.* GOLD COAST, Ashanti (Dudgeon), 1 ♀ type. *Exp.* 34 mm.

Allied to *Z. aurofodinæ*, Dist.

GENUS AMPHIPHALERA, nov.

Type *A. leuconephra*.

Proboscis fully developed; palpi short, porrect; frons smooth; eyes large, round; antennæ simple and laminate in both sexes; thorax clothed with hair only and without crests; tibiæ moderately fringed with hair, the hind tibiæ with two pairs of spurs; abdomen smoothly scaled and without crests. Fore wing rather long and narrow, the apex

rounded, the termen evenly curved and not crenulate; vein 3 from before angle of cell; 5 from just above middle of discocellulars; 9 from 10 anastomosing with 8 to form a long areole, 6 from the areole; 11 from cell. Hind wing with veins 3, 4 from angle of cell; 5 from middle of discocellulars; 6, 7 stalked; 8 approximated to the cell to beyond middle.

*Amphiphalera leuconephra*, sp. n.

Head and thorax white mixed with brown; abdomen fulvous yellow, greyish at extremity, the ventral surface yellowish white faintly banded with brown. Fore wing pale silky grey-brown irrorated with white; indistinct antemedial dark points on the veins; reniform white, oblique bar-shaped, the costal area suffused with white from well before to well beyond it; a postmedial series of slight dark points on the veins, arising just beyond the reniform and obliquely incurved below vein 4; a faint whitish subterminal line, incurved below vein 7 and at middle, then oblique. Hind wing yellowish white, the terminal area pale silky brown, broad at costa, narrowing to tornus.

*Hab.* SIERRA LEONE (*Cator*), 1 ♂; GOLD COAST, Volta R. (*Dudgeon*), 1 ♀ type. *Exp.* 46 mm.

*Paradiastema pulverea*, sp. n.

Antennæ of male with rather long uniseriate branches to apex, of female with short branches.

♂. Head and thorax creamy white, the patagia with some fulvous; palpi blackish at tips; antennæ black; legs with brown hair mixed; abdomen fulvous, the ventral surface whitish slightly banded with black. Fore wing whitish thickly irrorated with rufous, the termen narrowly and cilia rufous. Hind wing silky white with a yellowish tinge.

♀. Abdomen with the anal tuft brownish white, with a blackish band at base; fore wing sometimes very thickly irrorated with rufous.

*Hab.* GOLD COAST, Cape Coast Castle (*Higlett*, *Dudgeon*), 1 ♂, 4 ♀ type; S. NIGERIA (*Dudgeon*), 2 ♀. *Exp.* 46-52 mm.

Resembles *P. nigrocincta*, Auriv., but the antennæ of female are pectinate instead of laminate.

GENUS LAMORIODES, NOV.

Type *L. metaleuca*.

Proboscis fully developed; palpi upturned, rather slenderly scaled and reaching to just above vertex of head; frons with

pointed conical prominence above; eyes large, round; antennæ of male long and ciliated; thorax clothed chiefly with scales and without crests; build very slender; legs very long, the tibiæ smoothly scaled and with the spurs long; abdomen long and slender and without crests. Fore wing very long and narrow, the apex rounded, the termen evenly curved and not crenulate; veins 3 and 4 from angle of cell; 5 from middle of discocellulars; 6 from upper angle; 9 from 10 anastomosing with 8 to form the areole; 11 touching 10 just beyond the areole. Hind wings with veins 3, 4 stalked; 5 from middle of discocellulars; 6, 7 stalked; 8 approximated to the cell to near middle.

*Leucania angustipennis*, Saalm. Lep. Madag. fig. 252, possibly belongs to this genus.

*Lamoriodes metaleuca*, sp. n.

♂. Head and thorax blackish brown; pectus and abdomen grey-white. Fore wing grey-brown tinged with fuscous at base, the veins and discal fold streaked with black; traces of an obliquely curved antemedial line; a black discoidal point; postmedial line indistinct and faintly defined by greyish on outer side, excurved from costa to vein 4, then strongly incurved to inner margin near antemedial line; a fine black terminal line. Hind wing creamy white, the terminal area tinged with brown; a fine dark terminal line; the underside with dark discoidal point.

*Hab.* SIERRA LEONE (*Clements*), 1 ♂ type. *Exp.* 22 mm.

*Lamoriodes metaphæa*, sp. n.

♂. Head and thorax black-brown; pectus and abdomen greyish fuscous. Fore wing fuscous brown, the veins and discal fold streaked with blackish; traces of a dark antemedial line bent inwards below submedian fold and with white points at median nervure and vein 1; traces of a dark postmedial line with white points at the veins, very oblique below vein 6 to middle of inner margin; a terminal series of minute black spots defined on inner side by white points. Hind wing fuscous brown with a slight pale line at base of cilia.

*Hab.* GOLD COAST, Kumasi (*Whiteside*), 1 ♂ type. *Exp.* 28 mm.

*Scrancia discalis*, sp. n.

Antennæ of female bipectinate with moderate branches to apex; fore wing with the areole very long.

♀. Head and thorax ochreous suffused with red-brown, the upper edge of patagia darker; palpi black on inner side; antennæ with the shaft whitish, the branches brown; fore legs streaked with dark brown on inner side; abdomen ochreous tinged with rufous, the crest at base with dark brown mixed. Fore wing ochreous, suffused in parts with red-brown and irrorated with a few black scales, especially on the veins; a diffused black-brown patch in submedian interspace to origin of vein 2, extending to just below vein 1 at base; an indistinct diffused oblique brown bar from costa before middle and oblique line from cell to vein 1; a rather quadrate black-brown patch in end of cell; the extremity of median nervure, discocellulars, and base of veins arising from end of cell creamy white; a double oblique sinuous brown postmedial line filled in with creamy white from vein 7 to 2 with two faint oblique rufous lines from it to costa and one to inner margin, the veins beyond it with blackish streaks; a maculate blackish subterminal line from vein 7 to 2, angled outwards at vein 4, defined on inner side by pale yellow and with the area beyond it browner; a terminal series of black points. Hind wing creamy white, the termen tinged with brown from apex to vein 2; the underside with the costal area suffused and irrorated with brown.

*Hab.* BR. E. AFRICA, Taveta (Rogers), 2 ♀ type. *Exp.* 36 mm.

*Scrancia stictica*, sp. n.

Antennæ of female bipectinate with short branches to two-thirds length; fore wing with the areole short and broad.

♀. Head and thorax brown mixed with greyish; palpi dark above, whitish below; abdomen grey suffused with brown. Fore wing grey tinged with brown; a subbasal black point in submedian fold; a slight antemedial dark shade from submedian fold to inner margin, with a black point beyond it on vein 1; a black discoidal striga defined by greyish placed on a faint diffused medial brown shade, narrowing to a slight bar at costa; a rather oblique double postmedial series of black points on the veins from below costa to inner margin; the apical part of costal area suffused with fuscous; traces of a pale waved subterminal line defined on outer side by slight blackish marks on the veins, the area beyond it tinged with grey-brown; a terminal series of prominent black points. Hind wing whitish, the terminal area suffused with brown; a faint discoidal striga; cilia whitish; the underside whitish, the costa slightly irrorated



with brown, a faint discoidal striga and subterminal shade diffused to apex.

*Hab.* NATAL, Durban (*Clarke*), 1 ♀ type. *Exp.* 48 mm.

Allied to *S. accipiter*, Schaus.

*Scrancia leucopera*, sp. n.

Antennæ of female ciliated.

♀. Head, tegulæ, and vertex of thorax ochreous mixed with red-brown, the patagia and metathorax white; pectus and legs whitish; abdomen pale red-brown with white segmental lines, the ventral surface whitish. Fore wing pale red-brown irrorated with glittering scales, the base white, with oblique outer edge; some slight white suffusion on middle of costa, with two brown points beyond it; reniform white, elliptical, its centre slightly defined by brown; the apical part of costal area white, its lower edge angled just before termen, three slight brown spots on it at costa; post-medial dark points above veins 5, 4, 3, and a subterminal series of whitish points from the patch to inner margin, those on veins 4, 3 nearer the termen; a terminal series of small brown spots. Hind wing pale red-brown; a dark brown terminal line with whitish points at the veins; the underside whitish tinged with red brown, the costal area irrorated with red-brown, the terminal area suffused with red-brown, a brown discoidal bar, curved postmedial line, and whitish subterminal line bent inwards to costa and ending on termen at vein 1.

*Hab.* S. NIGERIA, Old Calabar (*Crompton*), 1 ♀ type. *Exp.* 44 mm.

*Scrancia atrifrons*, sp. n.

♀. Head and thorax fuscous brown with a few whitish scales, the frons deep black; pectus grey; abdomen grey suffused with fuscous except at base. Fore wing fuscous brown; traces of sinuous black antemedial and medial lines; a faint whitish discoidal striga defined by black and with some ochreous before and beyond it; postmedial line indistinct, double, dentate and produced to black and white streaks on the veins; a fine black terminal line. Hind wing pale fuscous brown; the underside greyer.

*Hab.* TRANSVAAL (*Peard*), 1 ♀ type. *Exp.* 30 mm.

Allied to *S. africana*, Auriv., but the wings much shorter.

*Gargetta xylochroa*, sp. n.

Antennæ of male bipectinate with long branches to apex ; fore wing without fringe of hair on inner area below.

♂. Head and thorax brown mixed with ochreous and some fuscous ; antennæ pale ochreous ; abdomen ochreous suffused with brown. Fore wing ochreous suffused with brown and irrorated with a few black scales in submedian fold ; a subbasal black point below the cell ; faint traces of a diffused antemedial line, oblique from costa to submedian fold, then inwardly oblique ; a black point in cell towards extremity, with a very oblique dark shade to it from costa ; a slight blackish discoidal striga, with oblique shade to it from costa ; a very indistinct double sinuous postmedial line, the costa beyond it with pale points with fuscous between them, the veins beyond it with slight blackish streaks ; a pale subterminal shade, oblique from costa just before apex to submedian fold, then bent outwards to tornus ; a terminal series of black points. Hind wing pure white, with fine ochreous-brown terminal line with black points on it from apex to vein 2 ; the underside with the costa slightly tinged with ochreous.

*Hab.* BR. E. AFRICA, Kikuyu (*Crawshay*), 1 ♂ type. *Exp.* 32 mm.

*Gargetta leuca*, sp. n.

Antennæ of male bipectinate with long branches to apex ; fore wing without fringe of hair.

♂. Head and thorax white slightly tinged with rufous ; antennæ with the branches black at extreme base ; abdomen whitish tinged with brown. Fore wing ochreous faintly tinged with rufous and irrorated with a very few black scales, the costal edge brown. Hind wing semihyaline ochreous white.

*Hab.* GOLD COAST, Volta (*Dudgeon*), 1 ♂ type. *Exp.* 36 mm.

## GENUS PSALISODES, NOV.

Type *P. atrijasciata*.

Proboscis absent ; palpi porrect, extending about three times length of head and fringed with rather long hair below ; frons smooth ; eyes large, round ; antennæ of female bipectinate with long branches to apex and with tuft of very long hair from basal joint in front ; thorax clothed with hair only and without crests, the patagia with pointed tufts of hair from base of upper edge ; tibiæ moderately fringed with

hair; abdomen with some rough hair at base and without erects. Fore wing long and narrow, the costa highly arched towards apex, which is much produced, the termen very obliquely curved and not crenulate; veins 3 and 2 from close together towards angle of cell; 5 from middle of discocellulars; 9 from 10 anastomosing with 8 to form a very long areole; 6 from the areole; 11 from cell. Hind wing with veins 3, 4 from angle of cell; 5 from middle of discocellulars; 6, 7 stalked; 8 approximated to the cell to middle.

*Psalisodes atrifasciata*, sp. n.

♀. Head and thorax grey mixed with brown, some black on upper edge of patagia at base; antennæ with the shaft whitish, the branches rufous, the tufts from basal joint dark brown; abdomen grey suffused with reddish brown. Fore wing grey tinged with brown, especially at middle of costal area, and irrorated with a few black scales; a black fascia on basal half of median nervure defined below by white; two red-brown streaks in terminal half of cell, with a fine white streak between them; antemedial line double, excurved in cell to near its extremity, then angled inwards and black filled in with white to the extremity of the fascia, again strongly excurved in submedian fold and very oblique to vein 1 before middle, where it terminates; a white discoidal bar defined on inner side by black; the extremity of median nervure and bases of veins 5, 4, 3, 2 streaked with white; post-medial line whitish defined on each side by slight black points at the veins, arising at vein 5, straight to vein 2, then excurved to inner margin near tornus; an oblique series of black streaks on the veins defined by white at tips and with some red-brown between them from below apex to the post-medial line at vein 4, an oblique brown shade from the extremity of the streak on vein 4 to the postmedial line at vein 2; a terminal series of minute black points at the veins. Hind wing greyish suffused with brown; cilia white at tips.

*Hab.* BR. E. AFRICA, Taveta (*Rogers*), 2 ♀, Athi R. (*Betton*), 1 ♀ type. *Exp.* 28-36 mm.

*Ramesa euzopherodes*, sp. n.

Fore wing with vein 9 from 10 anastomosing with 8 to form a long areole; antennæ of female with short branches ending in a bristle.

♀. Head and thorax brown mixed with ochreous white; abdomen grey-brown, the ventral surface ochreous white. Fore wing ochreous white faintly tinged with red-brown, the

terminal area suffused with brown, with black streaks on the veins and brownish streaks in the interspaces; a black streak below median nervure to origin of vein 2; a double blackish medial line, almost obsolete towards costa and inner margin, very strongly excurved in cell to near its extremity, then angled inwards to extremity of the black streak, then again excurved, a black streak in submedian fold from it to the double waved postmedial line almost obsolete towards costa and inner margin; subterminal line very indistinct, pale, waved, obsolete towards costa and bent inwards below vein 4 to near the postmedial line. Hind wing ochreous white, the termen slightly tinged with brown from apex to vein 2; the underside with the costal area slightly irrorated with red-brown.

*Hab.* UGANDA, White Nile, Gondokoro (*Reynes Cole*), 1 ♀ type. *Exp.* 40 mm.

Allied to *R. macrodonta*, Hmps. n.

*Ramesa dasychira*, sp. n.

Fore wing with veins 9 and 10 anastomosing with 8 to form a moderate areole.

♀. Head and thorax brown mixed with grey, some yellowish white on vertex of head; tegulæ black, with yellowish-white patch edged with black behind them; pectus, legs, and abdomen grey-brown, the tarsi ringed with whitish. Fore wing brown mixed with some grey and irrorated with black; the first line medial, black, waved, defined on inner side by grey-white, irrorated with large black scales, diffused inwards towards inner margin; a black discoidal bar; postmedial line black, defined on outer side by whitish, minutely dentate, bent inwards to costa; subterminal line waved, whitish; a terminal series of black striæ. Hind wing whitish suffused with brown, the cilia whiter.

*Hab.* TRANSVAAL, White R. (*Cooke*), 1 ♀ type. *Exp.* 34 mm.

Allied to *R. macrodonta*, Hmps. n.

Genus NOTOXANTHA, nov.

Type *N. sesamiodes*.

Proboscis aborted, minute; palpi porreet, extending to just beyond the frons, which has a horseshoe-shaped prominence with raised edges; eyes large, round; antennæ of male bipectinate with long branches to apex, of female ciliated; thorax clothed with hair only and without crests;

tibiæ moderately fringed with hair; abdomen without crests. Fore wing with the apex produced and acute, the termen evenly curved and not erenulate; veins 3, 4 from angle of cell; 5 from middle of discocellulars; 9 and 10 anastomosing with 8 to form a long arcole, 6 from the arcole; 11 from cell. Hind wing with vein 3 from before angle of cell; 5 from middle of discocellulars; 6, 7 stalked; 8 approximated to the cell to middle.

*Notoxantha sesamiodes*, sp. n.

Head chocolate-brown; thorax white slightly tinged with pink; legs brown on inner side; abdomen yellowish white suffused with fulvous except at extremity, the ventral surface tinged with brown. Fore wing pink sparsely irrorated with black, the costal edge, median nervure, and veins arising from it and vein 6 streaked with yellowish white. Hind wing yellowish white suffused with brown except at base, the terminal area and cilia tinged with pink; the underside tinged with pink except on inner area.

*Hab.* N. ANGOLA; MASHONALAND, Salisbury (*Marshall, Dobbie*), 2 ♂, 1 ♀ type; TRANSVAAL (*Peard*), 1 ♂. *Exp.*, ♂ 34, ♀ 40 mm.

*Pydna rubritincta*, sp. n.

Fore wing with veins 7, 8, 9, 10 stalked.

♀. Head and thorax grey mixed with brown, the meta-thorax rufous; fore femora black-brown on inner side; abdomen pale grey-brown. Fore wing greyish ochreous sparsely irrorated with black, the interspaces suffused with rufous except on basal and costal areas; an obliquely curved postmedial series of black points on veins 6 to 1; a series of blackish points just before termen. Hind wing grey, the veins suffused with fuscous brown; the underside pale greyish irrorated with brown and with a slight fuscous tinge in and beyond lower part of cell.

*Hab.* NATAL, Durban (*Leigh*), 1 ♀ type. *Exp.* 44 mm.

*Pydna flavida*, sp. n.

Fore wing with the areole short, vein 10 from beyond the areole; antennæ of male with long branches.

♂. Head and thorax ochreous white; antennæ fulvous; palpi black at sides; pectus blackish in front; fore femora and tibiæ black on inner side, the tarsi with some black towards extremities; abdomen fulvous, the anal tuft and

ventral surface ochreous white. Fore wing ochreous white sparsely irrorated with black scales; subbasal points formed of black scales below costa and cell; traces of an obliquely curved antemedial series of points formed of black scales; a diffused patch of black scales in end of cell and some on discocellulars; an obliquely curved postmedial series of black points on the veins and a subterminal series in the interspaces; some black scales on termen. Hind wing white, with some brown irroration in and just beyond the cell.

*Hab.* NATAL, Charlestown (*Toppin*), 1 ♂, Durban (*Bowker*), 2 ♂ type. *Exp.* 40 mm.

*Pydna brunneifascia*, sp. n.

Fore wing with the areole short, vein 10 from beyond the areole; antennæ of male with the branches long.

♂. Head and thorax ochreous white tinged with brown in front, the palpi and frons dark brown; pectus and legs suffused with brown; abdomen ochreous white tinged with brown, especially on dorsum of second and third segments. Fore wing ochreous white slightly irrorated with brown; a dark reddish-brown fascia along median nervure from near base to near termen below vein 5, narrowing to points at extremities; faint traces of a fascia formed of diffused brown scales below costal area from middle of cell to below apex; a series of brown points just before termen. Hind wing silky white; the underside with the costal area tinged with brown.

*Hab.* UPPER CONGO (*Wollaston*), 1 ♂ type. *Exp.* 32 mm.

*Pydna minima*, sp. n.

Fore wing with the areole short, vein 10 from beyond the areole; antennæ of male with long branches.

♂. Head and front of thorax dark brown; antennæ fulvous, the rest of thorax white; pectus in front and legs on inner side dark brown; abdomen pale orange-yellow, the base white, the ventral surface white tinged with brown. Fore wing white rather sparsely irrorated with brown. Hind wing silky white. Underside silky white, the costal area of fore wing faintly tinged with rufous.

*Hab.* N. NIGERIA, Lokoja (*Dudgeon*), 1 ♂ type. *Exp.* 24 mm.

*Pydna rubrifascia*, sp. n.

Fore wing with the areole long, vein 10 from beyond the



arcole; antennæ of male with long branches, of female ciliated.

Head and tegulæ rufous; thorax yellow; legs rufous in front; abdomen ochreous yellow. Fore wing pale yellow; a chestnut-red fascia from base below median nervure, expanding into lower extremity of cell, then rather oblique to vein 6 near termen, its lower edge somewhat dentate at the veins; some rufous scales on discocellulars; slight rufous subterminal spots above veins 3 and 2 and a series of points just before termen. Hind wing yellow faintly tinged with rufous; the underside yellowish white, the costal area tinged with rufous.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 1 ♂, Umtali (*Marshall*), 1 ♂; GAZALAND, Mt. Chirinda (*Marshall*), 1 ♀ type. *Exp.*, ♂ 32, ♀ 36 mm.

Closely allied to *P. nana*, Swinh., from India.

*Pydna rhabdophora*, sp. n.

Fore wing with the arcole long, vein 10 from the areole; antennæ of male with the branches long.

♂. Head and thorax ochreous white tinged with brown; antennæ fulvous; frons blackish below; fore femora brown above; abdomen pale orange slightly banded with brown, the ventral surface yellowish white, lateral and sublateral series of small black spots. Fore wing ochreous white thickly irrorated with brown; a black-brown fascia along median nervure from near base to well beyond the cell, its lower edge somewhat dentate at veins 2 and 3. Hind wing white faintly tinged with ochreous; the underside white, with the costal area slightly tinged with ochreous.

*Hab.* N. NIGERIA, Lokoja, Mt. Patti (*Christy*), 1 ♂ type. *Exp.* 40 mm.

*Pydna diatrecta*, sp. n.

Fore wing with the arcole long, vein 10 from the areole; antennæ of male with long branches.

♂. Head and thorax greyish ochreous tinged with brown, the head with black scales mixed; antennæ fulvous; pectus in front and fore tibiæ and tarsi on inner side blackish; abdomen greyish ochreous dorsally suffused with brown. Fore wing greyish ochreous thickly irrorated with black; a slight blackish fascia on median nervure from before middle, beyond the cell obliquely bent upwards to below apex, stronger and somewhat maculate; obliquely placed subterminal small black spots above veins 3 and 2; a series of black

points just before termen. Hind wing greyish suffused with fuscous brown leaving the termen pale; the underside whitish tinged with brown.

*Hab.* UGANDA, Masevi (*Christy*), 1 ♂ type, Kampala (*Christy*), 1 ♂. *Exp.* 36 mm.

*Turnaca rufisquamata*, sp. n.

♂. Head and thorax ochreous white mixed with rufous, the branches of antennæ blackish; palpi brown at side and tips; abdomen ochreous white tinged with rufous dorsally at base. Fore wing ochreous irrorated with hairy rufous scales especially on inner margin; veins 6 and 4 with slight dark streaks to the postmedial series of minute dark streaks on the veins; the extremities of the veins with slight dark streaks. Hind wing yellowish white.

*Hab.* GOLD COAST, Kumasi (*Whiteside*), 1 ♂ type. *Exp.* 42 mm.

Allied to *T. grisea*, Holl.

*Catarctia terminipuncta*, sp. n.

Fore wing with the termen strongly excised below apex; hind wing with the costa strongly excised before apex.

♂. Head and thorax ochreous white tinged with rufous; palpi blackish at sides; antennæ rufous; dorsum of thorax with black streak; fore legs pinkish on inner side; abdomen yellow, with subdorsal series of black spots, the hair at base and extremity pink. Fore wing ochreous white suffused with pale rufous; a small black spot in cell near base; a small pink discoidal spot; faint traces of a curved antemedial line and of a postmedial line bent outwards below costa, angled outwards at veins 4, 3, then incurved; an indistinct whitish subterminal line, angled outwards at veins 7, 6, 4, 3, incurved at discal fold and below vein 3 and ending at tornus, the area beyond it somewhat deeper rufous; a terminal series of black spots slightly defined by whitish. Hind wing pale yellow, the costal area tinged with rufous, a patch of pink suffusion on terminal area below vein 2 narrowing to tornus; a slight pinkish discoidal point; an indistinct curved pinkish postmedial line from costa to discal fold; traces of a sinuous whitish subterminal line from costa to termen at vein 2, the area beyond it tinged with rufous; two slight black points on termen below apex; cilia tinged with pink at apex. Underside of fore wing whitish, the costal area suffused with pink to beyond middle, a triangular patch of rufous suffusion before termen from

costa to vein 3, with two whitish lunules on it below the costa; hind wing whitish, the costal area suffused with rufous and with fuscous before and beyond the subterminal line, a small blackish discoidal spot.

*Hab.* GOLD COAST, Ashanti, Obuassi (*Bergman*), 1 ♂ type. *Exp.* 48 mm.

#### GENUS TRICHOLOBA, nov.

Type *T. (Antheua) carteri*, Druce.

Proboscis aborted, small; palpi upturned, slender, reaching about to vertex of head; frons smooth, with large tuft of hair above; eyes large, round; antennæ in both sexes bipectinate with long branches, the apical part laminate; thorax clothed with rough hair only and without crests; fore tibiæ moderately fringed with hair, the mid and hind tibiæ fringed with long hair; abdomen without crests. Fore wing with the apex rectangular, the termen obliquely curved and not crenulate; vein 3 from just before angle of cell; 5 from above middle of discocellulars; 9 from 10 anastomosing with 8 to form a long arcole, 6 from middle of arcole, 8 from beyond it; 11 from cell. Hind wing with very large lobe on costa near base fringed with thick long hair on its outer edge extending to towards apex; veins 3, 4 from angle of cell; 5 from middle of discocellulars; 6, 7 shortly stalked; 8 approximated to the cell to towards extremity.

#### *Tricholoba airiclathrata*, sp. n.

♀. Head and thorax pale ochreous yellow mixed with some reddish brown; palpi dark brown behind; fore legs suffused with brown in front, the tarsi banded with brown; abdomen pale yellow, with some reddish brown at base of dorsum. Fore wing creamy white irrorated with chocolate-brown; a subbasal chocolate-brown point below costa, with an oblique elliptical patch below it extending to below the cell and rather broken up by some of the ground-colour; two antemedial points below the costa, with traces of a double waved line from them to inner margin; a small elliptical chocolate annulus in end of cell intersected by a streak of the ground-colour in discal fold; a large elliptical chocolate patch at lower angle of cell, hooked on discocellulars and broken up by pale streaks on the veins; traces of a double postmedial line, the lines widely separated and oblique to vein 4, then inwardly oblique and more approximated; a conical patch of chocolate marks much broken up by the

ground-colour on costa towards apex and some chocolate on apical part of costa; subterminal line represented by a double lunule between veins 5, 4 and double oblique waved line from vein 3 to inner margin with some chocolate between it and postmedial line between veins 3 and 2; the termen thickly irrorated with chocolate towards tornus. Hind wing pale yellow, the costal edge brownish towards apex; the underside with the lobe fringed with chocolate-brown hair.

*Hab.* SIERRA LEONE (*Dudgeon*), 1 ♀ type. *Exp.* 50 mm.

*Scalmicauda heterogyna*, sp. n.

Antennæ of male bipectinate with moderate branches, the apical half simple; fore wing narrow.

♂. Head and tegulæ rufous deepening to chocolate behind, the vertex of head yellowish; the pointed crest behind the tegulæ very long; thorax and abdomen ochreous white, the pectus rufous in front. Fore wing pale fuscous brown, the inner area pale brownish grey, extending beyond the postmedial line to vein 3; traces of a slight pale subbasal line from costa to vein 1; a slight obliquely curved ante-medial brown line defined on outer side by whitish; orbicular and reniform with whitish annuli slightly defined by brown, elliptical, open above, the former rather oblique and with a round spot defined by brown below it in submedian interspace; postmedial line double, rufous filled in with whitish and defined by whitish on outer side, oblique and straight from costa just before apex to middle of inner margin; a sinuous brown subterminal line angled outwards at veins 4, 3, 2, and inwards at vein 1; cilia brown. Hind wing white, the inner area tinged with brown except towards base.

♀. Abdomen rufous; fore wing rufous, the inner half tinged with whitish; hind wing pale rufous.

*Hab.* DELAGOA BAY, 1 ♂ type; NATAL, Pinetown (*Bowker*), 1 ♀, Durban (*Clarke*), 1 ♀. *Exp.*, ♂ 34, ♀ 48-52 mm.

Allied to *S. spissicornis*, Mab., from Madagascar.

*Scalmicauda flavipennis*, sp. n.

Antennæ of male bipectinate with moderate branches, the apical half simple; fore wing narrow.

♂. Head, tegulæ, and a patch on prothorax bright rufous; palpi yellow tinged with rufous; thorax grey-brown, no crest behind tegulæ; abdomen whitish tinged with brown, the anal tuft long and tinged with rufous; pectus, legs, and

ventral surface of abdomen yellow slightly tinged with rufous. Fore wing pale yellow slightly irrorated with brown, the costa rufous except at base, the inner area suffused with rufous except at base; a fine sinuous brown subbasal line from costa to vein 1; antemedial line fine, brown, excurved below submedian fold; orbicular and reniform with fine brown annuli, large, elliptical, open above, a similar mark below the cell under the orbicular; postmedial line fine, brown, oblique from costa to vein 3, then still more oblique; a crenulate subterminal brown line, the area beyond it tinged with rufous; cilia rufous. Hind wing yellowish white, the hair on vein 1 faintly tinged with rufous.

*Hab.* SIERRA LEONE (*Bartlett*), 1 ♂ type. *Exp.* 50 mm.

*Scalimicauda argentescens*, sp. n.

Antennæ of male bipectinate with moderate branches, the apical half simple; fore wing narrow, the costa highly arched towards apex.

♂. Palpi and frons chocolate-brown, vertex of head white tinged with rufous; antennæ pale rufous; thorax red-brown tinged with grey; abdomen red-brown, paler towards extremity; pectus, legs, and ventral surface of abdomen ochreous, the pectus in front and fore legs rufous. Fore wing red-brown irrorated and suffused with silvery grey, the costal area paler towards base; a faint dark antemedial line from cell to inner margin, angled outwards below the cell, then oblique; orbicular and reniform faintly defined by blackish, closely approximated, the former oblique elliptical with white point on its inner edge, the latter elliptical and slightly constricted at middle with a small white spot between it and orbicular; postmedial line indistinct, dark, defined on outer side by silvery grey, very oblique and slightly incurved from apex to middle of inner margin; the costa towards apex bright rufous; a subterminal series of slight dark lunules in the interspaces, some silvery-grey suffusion before and beyond it at tornus; cilia dark brown. Hind wing pale red-brown; the underside ochreous white with a faint rufous tinge.

*Hab.* GOLD COAST, Kumasi (*Whiteside*), 1 ♂ type. *Exp.* 52 mm.

*Scalimicauda niveiplaga*, sp. n.

♀. Head, tegulæ, and a patch on prothorax deep chocolate-red, the rest of thorax rufous; pectus, legs, and abdomen ochreous tinged with rufous, the last dorsally

suffused with brown except at extremity. Fore wing rufous slightly irrorated with brown; subbasal line slight, brown, oblique from costa to median nervure and ending at vein 1; antemedial line brown, slightly angled inwards at submedian fold, then excurved; orbicular and reniform defined by brown, their centres also defined by brown, elliptical, the latter somewhat constricted at middle on inner side, a round blackish spot with pale point in centre below the orbicular; postmedial line brown slightly defined on inner side by greyish, slightly angled outwards below costa, obliquely curved to vein 2, then bent inwards and very oblique to inner margin, an elongate wedge-shaped silvery-white patch beyond it on costa; subterminal line represented by a series of slight dark lunules in the interspace, the lunule below vein 2 displaced inwards to near postmedial line; cilia chocolate brown. Hind wing pale red-brown, the costal area greyish; cilia whitish at tips; the underside ochreous white.

*Hab.* S. NIGERIA, Old Calabar (*Crompton*), 1 ♀ type.  
*Exp.* 60 mm.

Resembles *S. argenteo-maculata*, Auriv.

*Scalmicauda griseitincta*, sp. n.

Antennæ of male bipectinate with long branches to near apex which is simple, of female with shorter branches; fore wing narrow, the apex rounded.

♂. Head and thorax dark brown mixed with ochreous white; antennæ with the shaft barred with white towards base; tegulæ with slight dark medial line; fore tibiæ with the process on inner side large and pure white; tarsi banded with white; abdomen brown with a cupreous gloss, the anal tuft long. Fore wing red-brown glossed with grey, the veins with slight dark streaks, the submedian fold with series of minute red-brown streaks; a black point in cell near base; subbasal line red-brown, minutely waved, from costa to vein 1, the costal area and cell beyond it suffused with red-brown; medial line double, bent outwards in cell, then oblique, sinuous and angled inwards on vein 1; a dark discoidal striga with white points at the angles of cell; postmedial line double, the lines widely separated, obliquely curved and minutely dentate, the outer line with dark points beyond it on the veins, some white points beyond it on costa; subterminal line brown, minutely waved and somewhat excurved at middle; a fine dark terminal line and series of white points at base of cilia. Hind wing grey-brown with a reddish tinge, the cilia white at tips; the underside with faint patch



of dark suffusion on costal area near base and indistinct diffused sinuous postmedial line.

♀. Hind wing fuscous brown.

*Hab.* NATAL, Durban (*Leigh*), 1 ♂, 1 ♀ type. *Exp.*, ♂ 32, ♀ 38 mm.

*Larva.* Brown, the warts minute, blackish; head blackish; a pair of anal processes.

*Scalmycauda xanthogyna*, sp. n.

Antennæ of male serrate and fascieulate, the apex simple, of female minutely serrate; fore wing rather short and broad.

♂. Head and thorax deep chocolate-red, the vertex of head more yellow; palpi yellow in front; antennæ rufous; pectus and legs ochreous tinged with rufous; abdomen reddish brown with pale segmental bands, the ventral surface yellow. Fore wing deep chocolate-red; traces of an oblique sinuous antemedial line; orbicular and reniform faintly defined by brown, the former small, round, the latter elliptical with its outer edge indented, a small annulus defined by brown below the orbicular in submedian interspace; a blackish point above base of vein 6; postmedial line indistinct, dark, from costa towards apex, excurved below costa, then oblique and crenulate to middle of inner margin, a slight grey-brown patch beyond it on costa; a subterminal series of slight black lunules in the interspaces, the lunule below vein 3 with another lunule before it, and two pairs of points below vein 2; slight dark marks on termen below veins 4 and 3. Hind wing pale red-brown, whitish at base; the cilia whitish at tips; the underside whitish tinged with rufous.

♀. Head and tegulæ yellow; thorax yellowish brown; abdomen yellow tinged with red-brown; fore wing king's yellow, the inner half except at base suffused with red-brown, all the markings rather more diffused.

*Hab.* S. NIGERIA, Saple (*Sampson*), 1 ♂, 1 ♀ type. *Exp.*, ♂ 42, ♀ 44 mm.

*Scalmycauda albicostata*, sp. n.

♀. Head and thorax deep maroon-red; pectus and abdomen whitish tinged with rufous, the pectus in front, legs, and hair at base of dorsum of abdomen red. Fore wing deep maroon-red, the costal edge pure white; a faint whitish antemedial line, oblique from costa to vein 1, then bent inwards to inner margin; postmedial line whitish, very oblique,

slightly excurved from costa to vein 2, then slightly incurved. Hind wing glossy white, the veins tinged with ochreous.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 1 ♀ type.  
*Exp.* 50 mm.

*Scalmicauda ectoleuca*, sp. n.

Antennæ of male serrate and fasciculate, the apex simple; fore wing short and broad, the tornus with a scale-tooth.

♂. Head and thorax deep chocolate-red, the frons, vertex of thorax, and outer edge of patagia with some yellow; pectus and legs yellow tinged with rufous; abdomen dark brown, the extremity and ventral surface yellow. Fore wing with the base and costal half to postmedial line yellow, the costal edge chocolate-red except at base, some red irroration before antemedial line on inner area and before postmedial line, the area below the cell deep chocolate-red from the antemedial line to tornus and a red patch beyond the postmedial line above and below vein 5, the rest of terminal area creamy white with some red irroration; oblique sinuous chocolate-red subbasal and antemedial lines, the latter indistinctly double; orbicular and reniform defined by chocolate-red, the former round, the latter filled in with red suffusion and angled inwards on median nervure; traces of a dark annulus below the orbicular in submedian interspace; postmedial line chocolate-red, oblique from costa towards apex to vein 2, then incurved; a double lunulate black subterminal line. Hind wing dark brown; the underside whitish tinged with brown especially on costal area.

*Hab.* S. NIGERIA, Old Calabar (*Sampson*), 1 ♂ type.  
*Exp.* 32 mm.

*Scalmicauda rufula*, sp. n.

Antennæ of male with minute fascicles of cilia; fore wing narrow.

♂. Head and thorax rufous mixed with greyish; palpi chocolate-brown at sides; antennæ with the basal joint white at tip; hind tarsi slightly ringed with white; abdomen rufous, the anal tuft very long. Fore wing rufous mixed with greyish, the terminal area somewhat paler; a whitish point at base of median nervure; subbasal line fine, double filled in with whitish, slightly incurved; antemedial line fine, double filled in with whitish, sinuous; orbicular elliptical, with whitish annulus slightly defined by brown, extending to just below costa, and with fine sinuous double line filled in with whitish from it to inner margin; reniform elliptical with

whitish annulus and whitish line at middle, a blackish point at its lower inner extremity and a small black spot before it below the cell; medial line fine, double filled in with whitish, from below the costa well beyond the cell, oblique, slightly waved between veins 3 and 1; two similar postmedial lines; a subterminal series of oblique whitish striæ defined on outer side by black in the interspaces, placed in echelon; a fine dark terminal line. Hind wing rufous, the cilia white at tips; the underside whitish suffused with rufous, traces of a whitish postmedial band, rufous subterminal line, and series of rufous striæ before termen.

*Hab.* S. NIGERIA, Old Calabar (*Crompton*), 1 ♂ type. *Exp.* 38 mm.

*Ichthyura lentisignata*, sp. n.

♂. Head, dorsum of tegulæ, and a patch on prothorax black-brown, the rest of thorax and abdomen reddish brown mixed with greyish; antennæ grey-brown; pectus black-brown in front. Fore wing grey-brown tinged with red-brown, especially on apical area, and thickly irrorated with black; a black point in cell near base; two slight oblique antemedial lines, the first defined on outer side by whitish and bent outwards at median nervure, the second defined on inner side by whitish and slightly excurved below costa; a slight ochreous discoidal striga with faint dark shade beyond it and oblique ochreous line from lower angle of cell to inner margin with dark shade on its outer edge; a slight pale oblique postmedial line from costa to just below vein 2, somewhat excurved at vein 6 and incurved at discal fold, an oblique dark shade from it at discal fold to termen at vein 3; a subterminal series of slight dark points, somewhat excurved below vein 7 and at middle and bent outwards to termen above tornus; a terminal series of slight black striæ. Hind wing white slightly irrorated with red-brown, the veins and inner area tinged with red-brown; a slight red-brown terminal line; the underside white with the costal area irrorated with brown.

*Hab.* NATAL, Durban (*Leigh*), 1 ♂ type. *Exp.* 32 mm.

Allied to *S. restituta*, Wlk., from India.

*Ichthyura albifasciata*, sp. n.

♀. Head and thorax white with a few dark hairs, the dorsum of thorax tinged with rufous; abdomen white slightly tinged with brown; palpi pale rufous. Fore wing pale rufous; a wedge-shaped white fascia above and below median nervure from near base to end of cell towards which it

widens, a white patch slightly irrorated with brown between veins 4, 3, another between extremities of veins 7, 6, and some white irrorated with brown on costa towards apex; vein 7, the median nervure, and veins arising from it and extremities of veins 6, 7 streaked with white. Hind wing white.

*Hab.* SIERRA LEONE (*Morgan*), 1 ♀ type. *Exp.* 34 mm.

### Bombycidæ.

#### *Trilocha obliquisigna*, sp. n.

Fore wing with the termen evenly curved.

♂. Head, thorax, and abdomen pale yellow slightly mixed with red-brown; palpi and sides of frons red-brown; legs red-brown in front. Fore wing pale yellow sparsely irrorated with red-brown, a brownish patch on termen below apex; the antemedial area with two slight red-brown marks on costa and three very indistinct curved waved lines; an obliquely curved blackish discoidal striga; an oblique post-medial red-brown bar from costa; two red-brown subterminal lines, the first indistinct and slightly waved, the second more distinct and waved, forming a small spot at costa; a rather elongate red-brown apical mark; cilia reddish brown. Hind wing pale yellow slightly irrorated with red-brown, the inner margin with three red-brown spots; the antemedial area with three very indistinct waved lines; a slight discoidal point; two curved, waved postmedial lines, not reaching costa and closely approximated towards inner margin; a diffused subterminal red-brown shade from vein 4 to inner margin; cilia red-brown; the underside with two discoidal points, the two postmedial lines more distinct and reaching the costa.

*Hab.* N. ANGOLA, Kibokolo do Zombo (*Lewis*), 1 ♂ type. *Exp.* 30 mm.

Resembles *T. albiceps*, Wlk., from Borneo.

[To be continued.]

### LXVII.—*Descriptions and Records of Bees.*—XXIX.

By T. D. A. COCKERELL, University of Colorado.

#### *Lithurgus chrysurus*, Fonse.

S.W. Persia (*Escalera*). British Museum.

One female, which has the ventral scopa shining creamy white, reddish in the middle. In all respects this Persian